

The following listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims

1. (Currently Amended) A method of operating a home gateway system comprising ~~the steps of:~~
 - ~~(a)~~ connecting a telephone to a data telephony interface of the home gateway system;
 - ~~(b)~~ dialing a destination telephone number;
 - ~~(c)~~ triggering on a call request at a switch of the home gateway system and sending a query to a processor of the home gateway system;
 - ~~(d)~~ receiving a reply from the processor including a telephone number of an internet service provider;
 - ~~(e)~~ establishing a telephony connection with the internet service provider; and
 - ~~(f)~~ sending a message to the internet service provider including the destination telephone number.
2. (Currently Amended) The method of claim 1, further including ~~the steps of:~~
 - ~~(g)~~ receiving an audio signal from the telephone;
 - ~~(h)~~ digitizing the audio signal to form a digitized signal;
 - ~~(i)~~ packetizing the digitized signal to form a plurality of outgoing packets; and
 - ~~(j)~~ transmitting the plurality of outgoing packets to the internet service provider.
3. (Currently Amended) The method of claim 2, further including ~~the steps of:~~
 - ~~(k)~~ receiving a plurality of incoming packets from the internet service provider;
 - ~~(l)~~ converting the plurality of incoming packets into an incoming audio signal; and
 - ~~(m)~~ connecting the incoming audio signal to the telephone.

4. (Currently Amended) The method of claim 1, wherein ~~step (e) further includes the steps of establishing the telephony connection with the internet service provider~~ comprises:
- (e1) ~~establishing a wireless local loop connection to a base station; and~~
 - (e2) ~~connecting the base station to the internet service provider.~~
5. (Currently Amended) The method of claim 2, wherein ~~step (h) includes the step of digitizing the audio signal to form the digitized signal~~ comprises compressing the digitized signal.
6. (Currently Amended) The method of claim 2, wherein ~~step (j) further includes the steps of transmitting the plurality of outgoing packets to the internet service provider~~ comprises:
- (j1) ~~determining a priority of the plurality of outgoing data packets; and~~
 - (j2) ~~when the priority is low, storing the plurality of outgoing data packets until all of a high priority data packets have been transmitted.~~

Claims 7-12 (Cancelled)

13. (Currently Amended) A home gateway system comprising:
- a transceiver;
 - a switch connected to the transceiver;
 - a processor connected to the switch; and
 - a router connected to the switch, the router ~~receiving to receive~~ to receive a data packet from an internal port with an external address, the router ~~sending to send~~ to send a request to the processor to establish a communication session with an internet service provider, and the processor ~~directing to direct~~ to direct the transceiver to establish a telephony connection with the internet service provider.

14. (Currently Amended) The home gateway system of claim 13, wherein the transceiver ~~establishes~~is to establish a wireless local loop connection to a base station as part of the telephony connection.
15. (Currently Amended) The home gateway system of claim 13, wherein the processor ~~directs~~is to direct the transceiver to setup an asymmetric data channel.
16. (Original) The home gateway system of claim 13, further including a television processing system connected to the router.
17. (Currently Amended) The home gateway system of claim 16, wherein the television processing system ~~receives a plurality of~~is to receive information from an internet information provider, ~~the television processing system sending the plurality of~~and to send the information overvia a selected channel of a television.
18. (Currently Amended) The home gateway system of claim 17, wherein the television processing system ~~receives~~is to receive an email request, ~~the television processing system directing~~direct the processor to download an email to the television processing system, ~~the television processing system sending~~and to send the email ~~over~~via the selected channel of the television.
19. (Original) The home gateway system of claim 13, further including an emergency broadcast network receiver connected to the television processing system.
20. (Original) The home gateway system of claim 13, further including a voice mail system.
21. (Currently Amended) A home gateway system comprising:
 - a transceiver including a vocoder and a multiplexer;
 - a switch connected to the transceiver having a telephony input and a data telephony input;

a processor connected to the switch;
a router connected to the switch and capable of routing data between a plurality of ports;
a television processing system connected to the router, the television processing system capable of receiving ~~an~~ information from the router and sending the information over a predetermined channel to a television for display; and
an emergency broadcast system receiver connected to the television processing ~~system~~ system; ~~and~~ wherein the switch ~~receives~~ is to receive a destination address ~~over~~ via the data telephony input and ~~sends~~ to send a query to the processor, wherein the processor ~~returns~~ is to return a response including an internet phone provider number, wherein the switch ~~passes~~ is to pass the internet phone provider number to the transceiver, and wherein the transceiver ~~establishes~~ is to establish a telephony connection with an internet phone provider including a wireless local loop connection to a base station.